

## NMCP COVID-19 Report #11: Tuesday, 05 May 2020

**Prepared by:** Tracy Shields, MSIS, AHIP <tracy.c.shields2.civ@mail.mil>

Reference Medical Librarian; Naval Medical Center Portsmouth, Library Services

**Disclaimer:** I am not a medical professional. This document is current as of the date noted above. While I make every effort to find and summarize available data, things are changing rapidly, with new research and potentially conflicting literature published daily. Best practice and evidence are constantly shifting during this international public health crisis.

Reports are biweekly, planned for Tuesdays and Fridays.

### Statistics

*Global* 3,607,469 confirmed cases and 252,301 deaths in 187 countries/regions

#### *United States*

top 5 states (Virginia is ranked 16th)

	TOTAL	NY	NJ	MA	IL	CA
Confirmed Cases	1,181,885	318,953	128,269	69,087	63,777	56,135
Recovered	NA	58,950	15,642	NA	NA	NA
Deaths	68,934	24,999	7,910	4,090	2,659	2,289
Tested	7,285,178	1,007,310	277,220	324,268	333,147	747,874

[JHU CSSE](#) as of 1100 EDT Tuesday, 05 May 2020

NA: not all data available

#### *Navy (Department of Defense)*

	TOTAL	MIL	CIV	DEP	CTR
Cases	1,680	1,459	136	41	44
Hospitalized	20	8	5	0	7
Recovered	879	602	142	75	60
Deaths	8	1	5	0	2
Cumulative*	2,567	2,062	283	116	106

\*cumulative total = active + recovered + deaths

[DoD](#) dated Monday, 04 May 2020

<i>Virginia</i>	Total	Chesapeake	Hampton	Newport News	Norfolk	Portsmouth	Suffolk	Virginia Beach
Cases	20,256	293	128	133	251	187	205	445
Hospitalized	2,773	65	28	35	46	36	37	83
Deaths	713	9	3	9	4	8	15	15

[VA DOH](#) as of 1000 EDT Tuesday, 05 May 2020

## ***Ripple Effects: Other Health and Wellness Issues Impacted by COVID-19***

The current pandemic has far reaching effects beyond an individual's health and mortality associated with infection by the SARS-CoV-2 virus and COVID-19 disease. There are discussions by policy makers, thought leaders, and public health officials on other health impacts of the pandemic ([CHOP](#)). Topics include:

- mental health of frontline healthcare providers (see report #10) and other groups including children (see below)
- amplification of healthcare disparities
- changes in access to and continuity of care for patients with chronic health conditions
- socioeconomic and psychosocial issues such as domestic violence, child maltreatment, and food insecurity (see report #9)

### **Mental Health (Other Groups)**

May is Mental Health Awareness month, a movement to help "fight stigma, provide support, educate the public and advocate for policies that support people with mental illness and their families" ([NAMI](#)). This year, the theme is Tools 2 Thrive; the goal is to "provide practical tools that everyone can use to improve their mental health and increase resiliency regardless of the situations they are dealing with" ([MHA](#)).

### ***Pandemic Effects***

Data from large-scale disasters (natural, environmental, or traumatic) suggest they are associated with increases in depression, PTSD, substance use disorder, domestic violence, and child abuse ([Psychol Med](#)). "The worldwide COVID-19 pandemic, and efforts to contain it, represent a unique threat, and we must recognize the pandemic that will quickly follow it—that of mental and behavioral illness—and implement the steps needed to mitigate it" ([JAMA Intern Med](#)).

The current COVID-19 pandemic may cause or aggravate fear, panic, stigma, and discrimination in individuals, even apart from mental health issues ([Int J Ment Health Nurs](#)). This fear, uncertainty, and stigmatization may act as barriers to seeking treatment for mental health ([Lancet Psychiatry](#)). Data from self-reported anxiety, depression, mental well-being, and alcohol use suggest that a multi-faceted approach may be necessary to meet mental health needs of those adversely affected by the outbreak ([Asian J Psychiatr](#)).

### ***Quarantine & Social Distancing***

A rapid review notes quarantine (and the use of that word in particular, as opposed to isolation) can have wide-ranging, substantial, and long-lasting psychological impacts on people ([Lancet](#)). In their review, the authors point out quarantine is associated with symptoms of acute stress

disorder, detachment, anxiety, irritability, sadness, guilt, insomnia, and other forms of psychological distress and disorder ([Lancet](#)).

Social/physical distancing, while a critical mitigation measure to slow or prevent viral spread, is an unknown factor that affects mental health and wellness. A non-peer reviewed paper posted to a preprint server that looks at mental health in a sample of 600 self-isolated adults from the United Kingdom reports markedly higher anxiety and depression scores ([medRxiv\\*](#)).

Restrictions have canceled milestone events and other communal gatherings; "the absence of ritual, such as funeral, often results in disenfranchised grief, and lacking social or cultural recognition impairs support resources that assist the grieving process" ([Brain Behav Immun](#)). The collective, anticipatory grief – a feeling of loss at our world changing, the loss of normalcy, the fear of economic toll, the loss of connection (especially physical) with others, and the physical isolation or loss of freedom – is another source of stress on mental health during the pandemic ([HBR](#)).

### *General Population*

An online survey of 1210 people during the initial outbreak in China reports that 53.8% of respondents rate the psychological impact of the outbreak as moderate or severe, 16.5% report moderate to severe depressive symptoms, and 28.8% report moderate to severe anxiety symptoms ([Int J Environ Res Public Health](#)). Another online survey of 5,851 adults in China suggests that social media exposure is associated with higher prevalence of depression, anxiety, and a combination of the two ([PLoS One](#)).

### *Children and Their Parents*

In a research letter that surveyed school-aged children in Hubei province in China, the authors state that 22.6% reported having depressive symptoms and 18.9% anxiety symptoms ([JAMA Pediatrics](#)). Children in quarantine may be especially vulnerable if separated from their caregivers (e.g., parents, grandparents, extended family, or teachers) or their caregivers have been infected by or died from COVID-19 ([Lancet Child Adolesc Health](#)). The long-term effects of the pandemic on psychosocial development of young children are unknown.

A letter to the editor notes parents of hospitalized children during the COVID-19 epidemic in Wuhan were more anxious and depressed, and their symptoms more obvious, when compared to parents of children hospitalized during a non-epidemic timeframe; the authors suggest parental PTSD and other mental health problems may affect the child's recovery as well ([Psychiatry Res](#)).

### *Patients with Mental Health Disorders*

For those with a history or mental health disorders, the COVID-19 pandemic can be an especially challenging time. They may be more susceptible to illness and infections, have barriers to appropriate care, face discrimination, and have relapses or worsening of existing

conditions ([Lancet Psychiatry](#)). Telehealth services could help support mental health interventions during and after pandemic ([Telemed J E Health](#)). (For more information on the role of telehealth in substance use disorder during the pandemic, see COVID-19 report #7 from Tuesday, 21 April 2020.)

### *Other Populations*

Groups such as older adults and the elderly, patients with chronic health conditions such as diabetes or epilepsy, young adults in higher education, and veterans may face other challenges to their mental health and well-being during the pandemic.

For a selection of literature in those groups, see this collection of citations in PubMed: <https://www.ncbi.nlm.nih.gov/sites/myncbi/tracy.shields.1/collections/59593027/public/>

*NB: Many of the studies and reports on mental health issues during the COVID-19 pandemic are in Asian populations; sociological, cultural, and linguistic differences could impact the generalizability of data.*

### *Additional Resources*

#### *General*

Mental Health America. Mental Health Month 2020 - Toolkit Download (accessed 30 April 2020). Link: <https://www.mhanational.org/mental-health-month-2020-toolkit-download>

National Action Alliance for Suicide Prevention. Mental Health and Suicide Prevention – National Response to COVID-19 (accessed on 04 May 2020). Link: <https://theactionalliance.org/covid19>

Suicide Prevention Resource Center (SPRC). Resources to Support Mental Health and Coping with the Coronavirus (COVID-19) (accessed 04 May 2020). Link: <https://www.sprc.org/covid19>

#### *Apps – Meditation, Mindfulness, & Wellness*

- Calm <https://www.calm.com/>
- Happify <https://www.happify.com/>
- Headspace <https://www.headspace.com/>
- The Mindfulness App <https://themindfulnessapp.com/>
- Mindfulness Coach [https://www.ptsd.va.gov/appvid/mobile/mindfulcoach\\_app.asp](https://www.ptsd.va.gov/appvid/mobile/mindfulcoach_app.asp)
- Mindshift <https://www.anxietycanada.com/resources/mindshift-cbt/>
- PTSD Coach [https://www.ptsd.va.gov/appvid/mobile/ptsdcoach\\_app.asp](https://www.ptsd.va.gov/appvid/mobile/ptsdcoach_app.asp)

## **Webinar: Mental Health for Healthcare Providers**

"Supporting Clinician Well-Being During COVID-19"

Thursday, 07 May from 1330 – 1500 ET

"This free 90-minute webinar will provide a timely discussion and platform for physicians, nurses, students, and health system leaders to delve into the critical needs, priorities, and emerging strategies to support the mental and emotional well-being of clinicians on the frontlines—both during and beyond the COVID-19 pandemic. This webinar is open to the public and will be recorded."

Registration: <https://www.eventbrite.com/e/supporting-clinician-well-being-during-covid-19-webinar-tickets-103866762282>

## **Summaries from Other Sources**

[CEBM](#): Vitamin D: A rapid review of the evidence for treatment or prevention in COVID-19 (01 May 2020)

"We found no clinical evidence on vitamin D in COVID-19. There was no evidence related to vitamin D deficiency predisposing to COVID-19, nor were there studies of supplementation for preventing or treating COVID-19."

"There is some evidence that daily vitamin D3 supplementation over weeks to months may prevent other acute respiratory infections, particularly in people with low or very low vitamin D status. This evidence has limitations, including heterogeneity in study populations, interventions, and definitions of respiratory infections that include upper and lower respiratory tract involvement...."

"Clinicians should treat patients with vitamin D deficiency irrespective of any link with respiratory infection."

## **Selected Primary Literature**

*Recent – peer-reviewed; published within the last 7 days of report date*

[JACC](#): Safe Reintroduction of Cardiovascular Services during the COVID-19 Pandemic: Guidance from North American Society Leadership (04 May 2020)

"This consensus report provides harmonized guidance from North American cardiovascular societies. It provides an ethical framework with appropriate safeguards for the gradual reintroduction of invasive cardiovascular procedures and diagnostics tests after the initial

peak of the COVID-19 pandemic. A collaborative approach will be essential to mitigate the ongoing morbidity and mortality associated with untreated cardiovascular disease."

[Lancet](#): Obesity could shift severe COVID-19 disease to younger ages (04 May 2020)

In this letter, the authors describe the possible correlation between body mass index (BMI) and age in patients with COVID-19 admitted to intensive care at Johns Hopkins, University of Cincinnati, New York University, University of Washington, Florida Health, and University of Pennsylvania.

"In our dataset of 265 patients (58% male patients), we found a significant inverse correlation between age and BMI, in which younger individuals admitted to hospital were more likely to be obese. There was no difference by sex ( $p=0.9$ ). The median BMI was 29.3 kg/m<sup>2</sup>, with only 25% of individuals having a BMI of less than 26 kg/m<sup>2</sup>, and 25% exceeding a BMI of 34.7 kg/m<sup>2</sup>."

[NEJM](#): Renin-Angiotensin-Aldosterone System Blockers and the Risk of COVID-19 (01 May 2020)

"In this large, population-based study, the use of ACE [angiotensin-converting–enzyme] inhibitors and ARBs [angiotensin-receptor blockers] was more frequent among patients with COVID-19 than among controls because of their higher prevalence of cardiovascular disease. However, there was no evidence that ACE inhibitors or ARBs affected the risk of COVID-19."

[NEJM](#): Renin-Angiotensin-Aldosterone System Inhibitors and Risk of COVID-19 (01 May 2020)

"We found no substantial increase in the likelihood of a positive test for COVID-19 or in the risk of severe COVID-19 among patients who tested positive in association with five common classes of antihypertensive medications."

### *Literature Trackers & Other Curated COVID-19 Collections*

LitCOVID, an extension of PubMed, is a curated literature hub from the NLM for tracking up-to-date scientific information about SARS-CoV-2 and COVID-19 disease.

See: <https://www.ncbi.nlm.nih.gov/research/coronavirus/>

Johns Hopkins Bloomberg School of Public Health has developed the 2019 Novel Coronavirus research Compendium (NCRC); "teams rapidly curate and assess the literature on SARS-CoV-2 and COVID-19 to inform the public health community during this pandemic".

See: <https://ncrc.jhsph.edu/>

COVID-19 Primer is another way to track the latest research papers and see trends in topics related to the pandemic.

See: <https://covid19primer.com/dashboard>

## **In Brief**

### *The Next Wave: Mental Health*

Crisis counselors – "the paramedics of the mental health world" – and hotlines are seeing record numbers of callers during the pandemic ([STAT](#)).

"The coronavirus pandemic is pushing America into a mental health crisis" ([WashPo](#)).

### *Groundhog Day. Maybe.*

A special report on what the future of the COVID-19 pandemic might look like breaks it into 3 scenarios: a monster wave that is the current outbreak followed by mini-waves of smaller outbreaks; the current monster wave and a second wave even more serious and longer-lasting after guard is dropped; and a new normal with sustained duration of outbreaks of equal size. "What all three scenarios agree on is this: There is virtually no chance COVID-19 will end when the world bids good riddance to a calamitous 2020" ([STAT](#)).

The full report was mentioned in the NMCP COVID-19 report #10: "A new report from the Center for Infectious Disease Research and Policy looks at lessons learned from pandemic influenza and what we might expect from COVID-19 ([CIDRAP](#))."

### *New Syndrome in Pediatric Patients*

Fifteen children in New York City have been hospitalized with what appears to be an unknown syndrome with similar symptoms to toxic shock or Kawasaki disease; while some patients have coronavirus, they do not all test positive for the virus ([NYT](#)).

This phenomenon was first mentioned in the NMCP COVID-19 report #10: "An alert from NHS England (UK) highlights a 'small rise' of cases of critically ill children with unusual clinical presentation. The alert stated: "the cases have in common overlapping features of toxic shock syndrome and atypical Kawasaki disease with blood parameters consistent with severe COVID-19 in children. Abdominal pain and gastrointestinal symptoms have been a common feature as has cardiac inflammation". Many, but not all, of these children test positive for COVID-19 ([PICS](#))."

### *Outbreak Hotspots*

Nineteen states report COVID-19 cases in US workers in 115 meat and poultry processing facilities ([MMWR](#)).

The Bureau of Prisons reports 51 facilities have been affected by COVID-19 cases; "there are 1926 federal inmates and 350 BOP staff who have confirmed positive test results for COVID-19 nationwide" as of 03 May ([BOP](#)).

## *Testing*

The Infectious Disease Society of America has published a COVID-19 antibody testing primer to explain serological tests for SARS-CoV-2 and related issues ([IDSA](#)).

Companies selling antibody tests must submit data to FDA proving accuracy or face removal from the market ([NYT](#)).

Researchers at Northwestern University have been funded to develop an easy-to-use, quick point-of-care screening test for infectious diseases, including the new coronavirus ([NSF](#)).

Pfizer has started testing 360 volunteers with a new coronavirus vaccine in the US ([NPR](#)).

## *Downstream Effects*

Analysis of electronic health records data shows preventive cancer screenings have recently dropped between 86% and 94%, presumably from disruptions in care due to the pandemic ([EPIC](#)).

The pandemic and physical distancing measures have closed research labs, putting future funding, data, and continuity of work at risk ([STAT](#)).

## *Mindfulness & Wellness*

Wondering why doing jigsaw puzzles, reading mysteries, or similar activities are appealing during this time? It may be due to the sense of psychological order to the chaos we feel ([WashPo](#)).

If puzzles aren't your thing, try this guide on taking care of yourself, from head to toe ([WashPo](#)).

## *Long Form and In-Depth Articles*

"The dawn of a pandemic—as seen through the news and social media posts that vanished from China's internet" ([Wired](#)).

"At the start of the coronavirus outbreak, one ill-fated cruise ship became a symbol for the panic and confusion that would soon engulf the globe" ([GQ](#)).

"Will Americans lose their right to vote in the pandemic?" ([NYTMag](#)).

## **Looking Ahead**

Planned for upcoming reports: new therapies; special topic on ethics during pandemics; and any other submitted requests.



## References

### *Statistics*

DOD Department of Defense, Navy. US Navy COVID-19 updates (accessed 28 April 2020). Link: <https://navylive.dodlive.mil/2020/03/15/u-s-navy-covid-19-updates/>

JHU CSSE: Johns Hopkins Center for Systems Science and Engineering. Coronavirus COVID-19 Global Cases. Link: <https://coronavirus.jhu.edu/map.html>

VA DOH: Virginia Department of Health. COVID-19 in Virginia, updated daily. Link: <http://www.vdh.virginia.gov/coronavirus/>

VHHA: Virginia Hospital and Healthcare Association. Virginia Hospital COVID-19 Dashboard (updated daily) Link: <https://www.vhha.com/communications/virginia-hospital-covid-19-data-dashboard/>

### *Ripple Effects: Mental Health (Other Groups)*

Asian J Psychiatr: Ahmed MZ, Ahmed O, Aibao Z, Hanbin S, Siyu L, Ahmad A. Epidemic of COVID-19 in China and associated Psychological Problems. Asian J Psychiatr. 2020 Apr 14;51:102092. doi: 10.1016/j.ajp.2020.102092. [Epub ahead of print] PubMed PMID: 32315963; PubMed Central PMCID: PMC7194662. Link: <https://www.sciencedirect.com/science/article/pii/S1876201820302033>

Brain Behav Immun: Zhai Y, Du X. Loss and Grief amidst COVID-19: A Path to Adaptation and Resilience. Brain Behav Immun. 2020 Apr 23. pii: S0889-1591(20)30632-2. doi: 10.1016/j.bbi.2020.04.053. [Epub ahead of print] PubMed PMID: 32335197; PubMed Central PMCID: PMC7177068. Link: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7177068/pdf/main.pdf>

CHOP: Children's Hospital of Philadelphia, Policy Lab. Responding to COVID-19 (accessed 27 April 2020). Link: <https://policylab.chop.edu/project/responding-covid-19>

HBR: Harvard Business Review. Scott Berinato. That Discomfort You're Feeling is Grief (23 March 2020). Link: <https://hbr.org/2020/03/that-discomfort-youre-feeling-is-grief>

Int J Environ Res Public Health: Wang C, Pan R, Wan X, Tan Y, Xu L, Ho CS, Ho RC. Immediate Psychological Responses and Associated Factors during the Initial Stage of the 2019 Coronavirus Disease (COVID-19) Epidemic among the General Population in China. Int J Environ Res Public Health. 2020 Mar 6;17(5). pii: E1729. doi: 10.3390/ijerph17051729. PubMed PMID: 32155789; PubMed Central PMCID: PMC7084952. Link: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7084952/pdf/ijerph-17-01729.pdf>

JAMA Intern Med: Galea S, Merchant RM, Lurie N. The Mental Health Consequences of COVID-19 and Physical Distancing: The Need for Prevention and Early Intervention. JAMA Intern Med. 2020 Apr 10. doi: 10.1001/jamainternmed.2020.1562. [Epub ahead of print] PubMed PMID: 32275292. Link: <https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/2764404>

JAMA Pediatrics: Xie X, Xue Q, Zhou Y, Zhu K, Liu Q, Zhang J, Song R. Mental Health Status Among Children in Home Confinement During the Coronavirus Disease 2019 Outbreak in Hubei Province, China. JAMA Pediatr. 2020 Apr 24. doi: 10.1001/jamapediatrics.2020.1619. [Epub ahead of print] PubMed PMID: 32329784; PubMed Central PMCID: PMC7182958. Link: <https://jamanetwork.com/journals/jamapediatrics/fullarticle/2765196>

Lancet: Brooks SK, Webster RK, Smith LE, Woodland L, Wessely S, Greenberg N, Rubin GJ. The psychological impact of quarantine and how to reduce it: rapid review of the evidence. Lancet. 2020 Mar 14;395(10227):912-920. doi: 10.1016/S0140-6736(20)30460-8. Epub 2020 Feb 26. Review. PubMed PMID: 32112714; PubMed Central PMCID: PMC7158942. Link: [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(20\)30460-8/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)30460-8/fulltext)

Lancet Child Adolesc Health: Liu JJ, Bao Y, Huang X, Shi J, Lu L. Mental health considerations for children quarantined because of COVID-19. Lancet Child Adolesc Health. 2020 May;4(5):347-349. doi: 10.1016/S2352-4642(20)30096-1. Epub 2020 Mar 27. PubMed PMID: 32224303; PubMed Central PMCID: PMC7118598. Link: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7118598/pdf/main.pdf>

Lancet Psychiatry: Yao H, Chen JH, Xu YF. Patients with mental health disorders in the COVID-19 epidemic. Lancet Psychiatry. 2020 Apr;7(4):e21. doi: 10.1016/S2215-0366(20)30090-0. PubMed PMID: 32199510. Link: [https://www.thelancet.com/pdfs/journals/lanpsy/PIIS2215-0366\(20\)30090-0.pdf](https://www.thelancet.com/pdfs/journals/lanpsy/PIIS2215-0366(20)30090-0.pdf)

medRxiv\*: White RG, Van Der Boor C. The impact of the COVID19 pandemic and initial period of lockdown on the mental health and wellbeing of UK adults. medRxiv 2020.04.24.20078550; doi: <https://doi.org/10.1101/2020.04.24.20078550> Link: <https://www.medrxiv.org/content/10.1101/2020.04.24.20078550v1.full.pdf>

\*bioRxiv and medRxiv are preprint servers: "[T]hese are preliminary reports that have not been peer-reviewed. They should not be regarded as conclusive, guide clinical practice/health-related behavior, or be reported in news media as established information."

PLoS One: Gao J, Zheng P, Jia Y, Chen H, Mao Y, Chen S, Wang Y, Fu H, Dai J. Mental health problems and social media exposure during COVID-19 outbreak. PLoS One. 2020 Apr 16;15(4):e0231924. doi: 10.1371/journal.pone.0231924. eCollection 2020. PubMed PMID: 32298385; PubMed Central PMCID: PMC7162477. Link: <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0231924>

Psychiatry Res: Yuan R, Xu QH, Xia CC, Lou CY, Xie Z, Ge QM, Shao Y. Psychological status of parents of hospitalized children during the COVID-19 epidemic in China. Psychiatry Res. 2020

Apr 13;288:112953. doi: 10.1016/j.psychres.2020.112953. [Epub ahead of print] PubMed PMID: 32302814; PubMed Central PMCID: PMC7153530. Link: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7153530/pdf/main.pdf>

Psychol Med: Neria Y, Nandi A, Galea S. Post-traumatic stress disorder following disasters: a systematic review. Psychol Med. 2008 Apr;38(4):467-80. Epub 2007 Sep 6. Review. PubMed PMID: 17803838; PubMed Central PMCID: PMC4877688. Link: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4877688/pdf/nihms460402.pdf>

Telemed J E Health: Zhou X, Snoswell CL, Harding LE, Bambling M, Edirippulige S, Bai X, Smith AC. The Role of Telehealth in Reducing the Mental Health Burden from COVID-19. Telemed J E Health. 2020 Apr;26(4):377-379. doi: 10.1089/tmj.2020.0068. Epub 2020 Mar 23. PubMed PMID: 32202977. Link: <https://www.liebertpub.com/doi/full/10.1089/tmj.2020.0068>

### *Summaries from Other Sources*

CEBM: Centre for Evidence-Based Medicine, University of Oxford. Vitamin D: A rapid review of the evidence for treatment or prevention in COVID-19 (01 May 2020). Link: <https://www.cebm.net/covid-19/vitamin-d-a-rapid-review-of-the-evidence-for-treatment-or-prevention-in-covid-19/>

### *Primary Literature*

JACC: Wood DA, Mahmud E, Thourani VH, et al. Safe Reintroduction of Cardiovascular Services during the COVID-19 Pandemic: Guidance from North American Society Leadership. J Am Coll Cardiol. 2020 May 04. Epub ahead of print. DOI:10.1016/j.jacc.2020.04.063 Link (LIBRARY SUBSCRIPTION, NOT FREE): <https://www.clinicalkey.com/eu1.proxy.openathens.net/#!/content/journal/1-s2.0-S0735109720351652>

Lancet: Kass DA, Duggal P, Cingolani O. Obesity could shift severe COVID-19 disease to younger ages. The Lancet. Published May 04, 2020 DOI: [https://doi.org/10.1016/S0140-6736\(20\)31024-2](https://doi.org/10.1016/S0140-6736(20)31024-2) Link: [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(20\)31024-2/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)31024-2/fulltext)

NEJM: Mancina G, Rea F, Ludergrani M, Apolone G, Corrao G. Renin-Angiotensin-Aldosterone System Blockers and the Risk of Covid-19. N Engl J Med. 2020 May 1. doi: 10.1056/NEJMoa2006923. [Epub ahead of print] PubMed PMID: 32356627. Link: <https://www.nejm.org/doi/full/10.1056/NEJMoa2006923>

NEJM: Reynolds HR, Adhikari S, Pulgarin C, Troxel AB, Iturrate E, Johnson SB, Hausvater A, Newman JD, Berger JS, Bangalore S, Katz SD, Fishman GI, Kunichoff D, Chen Y, Ogedegbe G, Hochman JS. Renin-Angiotensin-Aldosterone System Inhibitors and Risk of Covid-19. N Engl J

Med. 2020 May 1. doi: 10.1056/NEJMoa2008975. [Epub ahead of print] PubMed PMID: 32356628. Link: <https://www.nejm.org/doi/full/10.1056/NEJMoa2008975>

### *In Brief*

BOP: Federal Bureau of Prisons. COVID-19 cases (04 May 2020). Link: <https://www.bop.gov/coronavirus/>

CIDRAP: Center for Infectious Disease Research and Policy. Moore KA, Lipsitch M, Barry JM. Osterholm MT. COVID-19: the CIDRAP Viewpoint Part 1: The Future of the COVID-19 Pandemic: Lessons Learned from Pandemic Influenza (30 April 2020). Link: <https://www.cidrap.umn.edu/sites/default/files/public/downloads/cidrap-covid19-viewpoint-part1.pdf>

EPIC: EPIC Health Research Network. Delayed Cancer Screenings (04 May 2020). Link: <https://ehrn.org/delays-in-preventive-cancer-screenings-during-covid-19-pandemic/>

GQ: GQ. Doug Bock Clark. Inside the Nightmare Voyage of the Diamond Princess (30 April 2020). Link: <https://www.gq.com/story/inside-diamond-princess-cruise-ship-nightmare-voyage>

IDSA: Infectious Disease Society of America. COVID-19 antibody testing primer (updated 29 April 2020). Link: <https://www.idsociety.org/globalassets/idsa/public-health/covid-19/idsa-covid-19-antibody-testing-primer.pdf>

MMWR: Dyal JW, Grant MP, Broadwater K, et al. COVID-19 Among Workers in Meat and Poultry Processing Facilities — 19 States, April 2020. MMWR Morb Mortal Wkly Rep. ePub: 1 May 2020. DOI: <http://dx.doi.org/10.15585/mmwr.mm6918e3> Link: <https://www.cdc.gov/mmwr/volumes/69/wr/mm6918e3.htm>

NPR: National Public Radio. Joe Palca. Pfizer Begins Coronavirus Vaccine Trial In U.S. (05 May 2020). Link: <https://www.npr.org/sections/coronavirus-live-updates/2020/05/05/850547834/pfizer-begins-coronavirus-vaccine-trial-in-u-s>

NSF: National Science Foundation, NSF Public Affairs. Researchers developing one-step COVID-19 diagnostic tool (29 April 2020). Link: [https://www.nsf.gov/discoveries/disc\\_summ.jsp?cntn\\_id=300491](https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=300491)

NYT: New York Times. Joseph Goldstein. 15 Children Are Hospitalized With Mysterious Illness Possibly Tied to Covid-19 (05 May 2020). Link: <https://www.nytimes.com/2020/05/05/nyregion/children-Kawasaki-syndrome-coronavirus.html>

NYT: New York Times. Sheila Kaplan. F.D.A. Orders Companies to Submit Antibody Test Data (04 May 2020). Link: <https://www.nytimes.com/2020/05/04/health/fda-antibody-tests-coronavirus.html>

NYTMag: New York Times Magazine. Emily Bazelon. Will Americans Lose Their Right to Vote in the Pandemic? (05 May 2020). Link: <https://www.nytimes.com/2020/05/05/magazine/voting-by-mail-2020-covid.html>

STAT: STATnews. Sharon Begley. Three potential futures for Covid-19: recurring small outbreaks, a monster wave, or a persistent crisis (01 May 2020). Link: <https://www.statnews.com/2020/05/01/three-potential-futures-for-covid-19/>

STAT: STATnews. Justin Chen. Covid-19 has shuttered scientific labs. It could put a generation of researchers at risk (04 May 2020). Link: <https://www.statnews.com/2020/05/04/coronavirus-lab-shutdowns-impact-on-scientists-research-delays/>

STAT: STATnews. Gabrielle Glaser. Crisis counselors, the ‘paramedics of mental health,’ wage a wrenching battle on the coronavirus front lines (04 May 2020). Link: <https://www.statnews.com/2020/05/04/crisis-counselors-wage-wrenching-battle-on-coronavirus-frontlines/>

WashPo: Washington Post. Suzette Moyer. Taking care of yourself during the pandemic, from head to toe (accessed 05 May 2020). Link: <https://www.washingtonpost.com/graphics/2020/lifestyle/wellness/virus-self-care/>

WashPo: Washington Post. William Wan. The coronavirus pandemic is pushing America into a mental health crisis (04 May 2020). Link: <https://www.washingtonpost.com/health/2020/05/04/mental-health-coronavirus/>

WashPo: Washington Post. Galadriel Watson. Why solving puzzles feels so satisfying, especially during a quarantine (04 May 2020). Link: [https://www.washingtonpost.com/lifestyle/wellness/why-solving-puzzles-feels-so-satisfying-especially-during-a-quarantine/2020/05/03/b87ac636-8bda-11ea-9dfd-990f9dcc71fc\\_story.html](https://www.washingtonpost.com/lifestyle/wellness/why-solving-puzzles-feels-so-satisfying-especially-during-a-quarantine/2020/05/03/b87ac636-8bda-11ea-9dfd-990f9dcc71fc_story.html)

Wired: Wired. Shawn Yuan. Inside the Early Days of China’s Coronavirus Coverup (01 May 2020). Link: <https://www.wired.com/story/inside-the-early-days-of-chinas-coronavirus-coverup/>